

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/32090

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C09D127/16 C09D127/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C09D C08L C08F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00/55130 A (IWATO SATOKO ;KAKU MUREO (JP); TATSUHIRO TAKAHASI (JP); FEIRING AN) 21 September 2000 (2000-09-21) claims; example 19	1-7
X	US 2003/166807 A1 (BIENER WILHELM-FRANZ ET AL) 4 September 2003 (2003-09-04) table 2 page 3, paragraph 52	1-7
X	US 2003/170455 A1 (IWAKIRI RYUZI ET AL) 11 September 2003 (2003-09-11) claims; example 10	1-7
X	US 4 335 238 A (MOORE ALBERT L ET AL) 15 June 1982 (1982-06-15) example 2 column 6, lines 46-48	1-7
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

27 May 2004

Date of mailing of the international search report

09.06.04

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 123 603 A (STEWART JR CLARE A) 31 October 1978 (1978-10-31) column 2, line 33; claims -----	1-7
X	US 2002/094440 A1 (ROLLER MARK B ET AL) 18 July 2002 (2002-07-18) examples 3-5 -----	8-12
X	EP 0 365 933 A (DAIKIN IND LTD) 2 May 1990 (1990-05-02) claim 1 -----	8-12
X	US 4 764 431 A (MANGANELLI DEL FA CARLO ET AL) 16 August 1988 (1988-08-16) example 1 -----	8-12
X	WO 01/37043 A (FRENCH ROGER HARQUAIL ; ZUMSTEG FREDRICK CLAUS JR (US); DU PONT (US);) 25 May 2001 (2001-05-25) claims 10-13 -----	8-12
X	US 3 023 187 A (SHEN LO ELIZABETH) 27 February 1962 (1962-02-27) column 8, line 73 - column 9, line 3; claims 1-3 -----	8-12
X	GB 1 395 609 A (TEIJIN LTD) 29 May 1975 (1975-05-29) comparative examples 2, 7 and 9 -----	8-12
X	FR 1 350 581 A (DU PONT) 24 January 1964 (1964-01-24) the whole document -----	8-12
X	GB 871 582 A (DU PONT) 28 June 1961 (1961-06-28) the whole document -----	8-12
X	US 3 194 796 A (NOONAN SQUIRE EDWARD) 13 July 1965 (1965-07-13) the whole document -----	8-12
X	US 3 235 537 A (ARTHUR GALLAGHER GEORGE ET AL) 15 February 1966 (1966-02-15) column 4, lines 71-75; example 12 -----	13-16
A	US 4 546 141 A (GEBAUER GERHARD) 8 October 1985 (1985-10-08) the whole document -----	13-16
A	DE 32 27 045 A (HOECHST AG) 26 January 1984 (1984-01-26) the whole document -----	13-16
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 4 395 445 A (GEBAUER GERHARD ET AL) 26 July 1983 (1983-07-26) claims</p> <p>-----</p>	13-16

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☒ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: claims 1-7

A one layer coating system comprising a fluorinated copolymer having the formula VF₂/TFE/HFP wherein the molar ratio TFE/HFP is 0.1-1.9 and the VF₂ content is 47-60 mol%.

2. claims: claims 8-12

A one layer coating system consisting of a fluorinated copolymer having the formula VF₂/HFP wherein the VF₂ content is 40-80 mol%.

3. claims: claims 13-16

A one layer coating system comprising a fluorinated copolymer having the formula VF₂/TFE/PMVE wherein the VF₂ content is 18-60 mol% and the TFE/PMVE mole ratio is 0.1-1.9.

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